i) **Introduction**

The Powerbrace System is a range of products intended to be used as temporary waling systems to sheeted excavations. The range of products comprises:

i) Double Acting Manhole Brace
ii) Shaftbrace
iii) Fixed Length Rails

These products are also frequently used in combination.

This booklet is intended to provide basic information for users of Powerbrace equipment and to draw the clients attention to the practical aspects of handling, assembly, installation and use which need to be considered in drawing up method statements for a safe system of work.
Powerbrace equipment should NOT be used in seawater applications without prior consultation with Mabey Hire Engineering Department.
Refer to Appendix A for details of our site demonstrator service.

ii) **Design**

No information on design is included in this booklet.
Clients are strongly advised to ensure that a competent engineer is employed to provide a suitable design for excavation schemes requiring the use of Powerbrace products.

Mabey Hire Ltd offer a design service and can on request, also provide information on the strength capacities of Powerbrace products for clients undertaking their own designs.

iii) **Frame Dimensions**

This booklet gives information for frame dimensions for each of the Powerbrace products used separately. When the products are used in combination - e.g. Double Acting Manhole Brace with Shaftbrace, consult Mabey Hire staff for frame dimensions.

iv) **Super Shaftbrace and Bracing Struts**

Shaftbrace and fixed length rails are often used in combination with Super Shaftbrace, Mechanical Bracing Struts and Hydraulic Bracing Struts. There are separate sets of User Information for these products. See page 12 for use of Shaftbrace and Fixed Length Rails with JC40 Bracing Struts.

v) **Hydraulic Adjustment**

The Powerbrace System incorporates a hydraulic system of adjustment which is designed to extend or retract the frames under conditions of no or low loading : e.g. as when first installed or as they become redundant after backfilling the excavation.
Once they are sustaining significant ground loads, hydraulic extension or retraction of the frames is inadvisable and is unlikely to be possible. Methods of working should therefore avoid the need for frame adjustment/removal whilst the walings are heavily loaded.

vi) **Contents**

Introduction and General Guidance Notes	Pages 1-3
Identification of Components and Stacking and Handling	Pages 4-5
Connection Details and Standard Frame Sizes	Pages 6-7
Typical Sequence of Sheet and Frame Installation and Removal	Pages 8-9
Use of Restraint Chains and Pump and Hydraulic Fluid details	Pages 10-11
Do's and Dont's	Page 11
JC40 Bracing Struts	Page 12
Provision of a Mabey Hire site demonstrator	Appendix A

vii) **General Guidance Notes**

a) Safe System of Work and Method Statement

Assuming that the location, plan size and depth of an excavation, together with an arrangement of sheets and frames has already been determined, the Health & Safety at Work Act requires that a safe system of work is adopted to carry out the work on site.

These guidance notes are intended to draw the client's attention to practical aspects of Powerbrace installation which need to be considered in drawing up method statements for a safe system of work.

In particular, the client's attention is drawn to the lengths and weights of the frame members and the need for planning the lifting operations involved.

All major components of the Powerbrace system are fitted with lifting lugs for safe slinging.

Two methods of constructing a typical excavation using Powerbrace are given on Pages 8 & 9

b) Manpower

The Construction Regulations require that personnel deployed are suitably trained and experienced and supervised by a competent person.

The main activities associated with Powerbrace installation are:

i) Unloading the delivery vehicle.
ii) Bolting up and pinning steelwork together to form walings or struts of the required length.
iii) Slinging and lifting walings into the excavation and connecting the corners to form frames.
iv) Connecting the pump to each waling in turn, pressurizing the frames and fitting restraint chains.
v) Slinging and lifting bracing struts into position and fixing them between walings.

c) Plant and Lifting

A suitable appliance is required for off-loading and installation. For off-loading there needs to be sufficient clearance under the main hook to allow lifting with a safe angle between the lifting slings.

If the walings/struts are to be lifted into the excavation then the appliance should be located a safe distance from the edge of the excavation and the lifts and radii checked against the safe lifting capacities of the appliance.

In this booklet it is assumed that the frames will be lifted into the excavation one leg at a time and assembled in the excavation.

For smaller excavations, say using Double Acting Manhole Brace it is quite common to lift complete frames into the excavation.

d) Tools and Lifting Chains (available from Mabey Hire)

i) Sledgehammers for making pinned connections. (Not in Mabey Hire supply)
ii) Podgers/spanners for making bolted connections (M20 for walings, M16 for struts).
iii) Lifting chains of suitable length and capacity complete with current certification.
The walings have lifting lugs designed to take size 10 'C' hooks. In most cases the centre of gravity of the lifts involved will not be at mid-length so shortening clutches are advisable. Mabey Hire offer sets of 4 leg 10mm chains with 4.0m leg length complete with shortening clutches and 'C' hooks (Code SB-LSLG, weight 47Kg, S.W.L. 9.0 Tons @ 90°).

e) Access and Hard Standing Areas

These include:

i) Suitable area to off-load the lorry and assemble the walings and struts.
ii) Suitable hard standing for the lifting appliance to operate from if it is intended to lift the walings/struts into the excavation.
iii) Ladders and possibly other provisions to provide safe access into the excavation to install restraint chains and connect pump hoses.

f) Supply of Equipment to Site

Mabey Hire will normally supply the legs and bracing struts pre-assembled to the size range required for immediate installation in the excavation.

g) During Excavation Works on Site

If Mabey Hire Ltd. have designed the sheeting and frame arrangement for the excavation they will have used ground data provided by the client.
If during an excavation it is noted that the actual ground conditions and/or ground water levels differ from those provided at design stage it is advisable to have the scheme rechecked.

h) After Excavation Works are Completed

Plan for edge protection to be installed as early as possible. Regularly inspect the excavation for signs of excessive movements of sheets of walings. Check the hydraulic walings for signs of fluid leakage.
Keep plant, spoil heaps and stored materials well clear from the edge of the excavation.

j) Return of Equipment off Hire

Clients should ensure that on removal, the equipment is returned clean in lengths as supplied.

k) Transportation

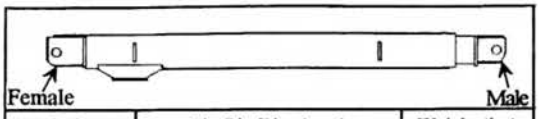
Ensure equipment is loaded to the satisfaction of the driver and is securely chained/strapped to the lorry.

l) References

Health & Safety at Work Act 1974
Management of Health and Safety at Work Regs. (M.H.S.W.) 1992
Construction (Design and Management) Regs. (CDM) 1994
The Construction Regulations
BS 6031 1981: Code of Practice for Earthworks
BS 8004 1986: Code of Practice for Foundations (formerly CP2004)
BS 7121 1989: Safe Use of Cranes
CIRIA Report 97: Trenching Practice
CIRIA Special Publication 131 : Crane Stability On Site
CIRIA Special Publication 95: The Design and Construction of Sheet Piled Cofferdams
H. & S. E. Guidance Note PM42: Excavators used as Cranes

viii) Identification of Components

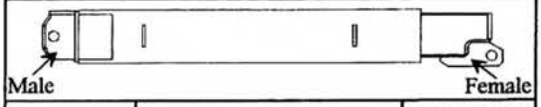
a) Double Acting Manhole Brace



Code	Pin-Pin Dim (mm)		Weight (kg)
	Min	Max	
MDAMBL-F	1585	2185	216
MDAMBL-E	1920	2520	232
MDAMBL-D	2320	3320	265
MDAMBL-A	3165	4165	300
MDAMBL-B	3840	4840	335

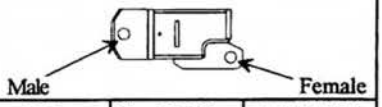
b) Shaftbrace

Ram Unit



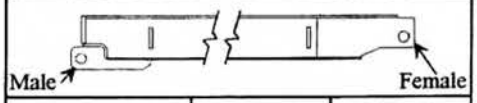
Code	Pin-Pin Dim (mm)		Weight (kg)
	Min	Max	
SHBP-110	1455	2055	270
SHBP-100	1855	2855	355

Male End Extension (203 x 203 U.C.)



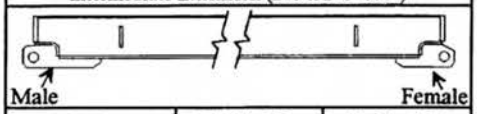
Code	Pin - Pin Dim. (mm)	Weight (Kg)
SHBP-195	450	50

End Extension (203 x 203 U.C.)



Code	Pin-Pin Dim (mm)	Weight (Kg)
SHBP-193	550	81
SHBP-150	1000	102
SHBP-151	1500	128
SHBP-174	2000	156
SHBP-152	2500	183
SHBP-153	3500	238

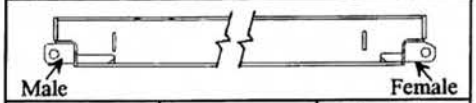
Intermediate Extension (203 x 203 U.C.)



Code	Pin-Pin Dim (mm)	Weight (Kg)
SHBP-170	500	60
SHBP-157	750	68
SHBP-158	1000	79
SHBP-154	1500	115
SHBP-155	2000	145
SHBP-188	2500	173
SHBP-156	3000	200
SHBP-177	5000	295
SHBP-162	7000	420

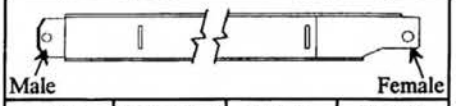
c) Fixed Length Rails (Longer lengths are commonly used in tank installation work)

Type 'B' - commonly referred to as
Heavy Duty Intermediate Extension (254 x 254 U.C.)



Code	Pin-Pin Dim (mm)	Weight (kg)
SHBP-187	500	88
SHBP-182	750	115
SHBP-171	1000	140
SHBP-168	1500	195
SHBP-172	2000	240
SHBP-169	3000	350
SHBP-186	4000	470
SHBP-178	5000	570
SHBP-192	7250	807
SHBP-183	8700	965
SHBP-167	9000	975
SHBP-184	10200	1125
SHBP-163	10500	1150
SHBP-166	12000	1460

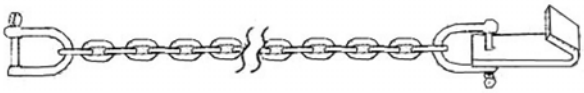
Type 'A' - commonly referred to as
Tank Brace Rail
(Can only be used as a fixed length rail)



Code	Section Size U.C.	Pin-Pin Dim (mm)	Weight (kg)
TB-03	203 x 203	7000	394
TB-02	254 x 254	9000	1022
TB-01	254 x 254	10500	1241

d) Accessories

1) **Restraint Chain**



Code : SHBP-189
Length : 2.0 m
Weight : 5.8 Kg
Capacity : 2000 Kg
Note: When used in combination with M11 sheets capacity reduces to 1500 Kg. When used with M6/M7 sheets capacity reduces to 1000 Kg.

2) Lifting Chain
Code : SB-LSLG
Weight : 47 Kg
10mm Grade 80, 4 leg chain sling 4m E. L. L. c/w 4 No. 'C' hooks and 4 No. shortening clutches.
Refer to Lifting Chain User Information for further details.

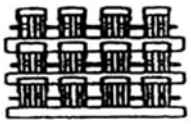
3) Installation kit
Double Acting Pump, Code : MHB-100 or PSP-101, Weight : 18 Kg empty, 43 Kg full
Hose extensions, Code : PSP-275
Lock off valve spanner

4) Optional Extras Supplied On Request
30 mm A/F Podger Spanner, Code : POD-SPANNER
24-30 mm A/F Open Ended Spanner, Code : JCBP-026
30-36 mm A/F Open Ended Spanner, Code : S3/39

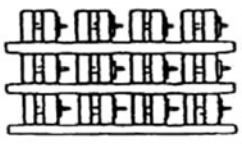
ix) Stacking and Handling

Suitable firm level dry areas should be made available on site for stacking and pre-assembly work.
Suitable lifting equipment of adequate capacity should be provided for off-loading, pre-assembly work, installation and dismantling.
Slinging should always be carried out by suitably experienced and competent personnel. Weight of legs and other components are given on Pages 4-7.
Return pre-assembled legs and struts as supplied from Mabey Hire's Depot.
Always stack all items in single layers wherever possible. If space does not permit this, advice on stacking layers is given below.

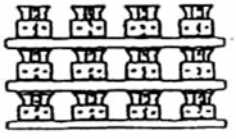
a) Double Acting Manhole Brace
Ensure rams are fully retracted.
Stack on 3" x 4" timbers in rows of 4 N°. (Max. Height 3 rows.)
Hydraulic connectors facing upwards.



b) Shaftbrace Legs
Ensure rams are fully retracted.
Stack on 3" x 4" timbers in rows of 4 N°. (Max. Height 3 rows.)
Hydraulic connectors facing sidewards



c) Fixed Rails
Stack on 3" x 4" timbers in rows of 4 N°. (Max. Height 3 rows.)



x) **Connection Details and Standard Frame Sizes**

Frame size ranges possible with each product used alone are given. Frame sizes for the products used in combination can be supplied by Mabey Hire staff on request.

In determining frame sizes the following must be taking into consideration:

a) Allowance must be made for the depth of sheeting to arrive at the excavation size.

b) A deflection allowance should be added to the clearance dimensions given. Clearance dimensions should be revised by $\frac{\text{Rail length (mm)}}{30}$.

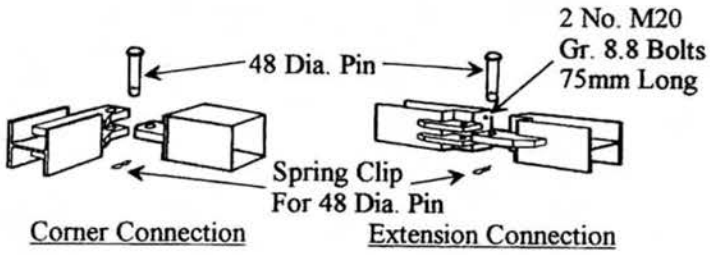
e.g. for a 7000mm long rail the clearance dimension should be reduced by $\frac{7000}{30} = 233$mm.

xi) **General Assembly and Site Connections**

The legs of all of the braces in the Powerbrace system are made to the correct length range prior to delivery, so that only the corners need to be connected. In all cases this is by using Bailey pins and spring retention clips supplied. The lugs at the corner connections are a close fit so it is only possible to assemble them with the frames level.

Typical Site Connections

Shaftbrace extensions are normally fixed prior to delivery, but to suit site conditions, the extensions can be changed by unbolting 2 bolts and removing the pin.
Only the corners usually require site assembly.

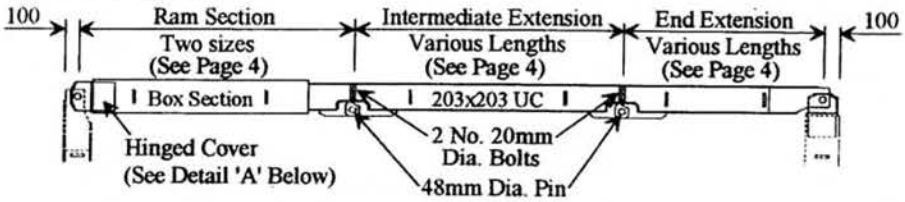


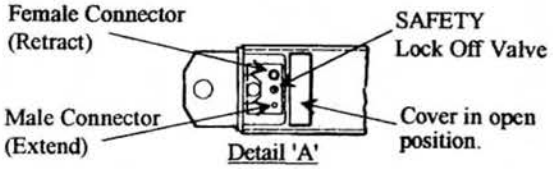
a) Double Acting Manhole Brace

DOUBLE ACTING MANHOLE BRACE - STANDARD FRAME SIZES					
Frame Code	Clear Inside (mm)		Over Frame (mm)		Frame Weight (kg)
	Min	Max	Min	Max	
MDAMB-F	1405	2005	1765	2365	864
MDAMB-E	1740	2340	2100	2700	928
MDAMB-D	2140	3140	2500	3500	1060
MDAMB-A	2985	3985	3345	4345	1200
MDAMB-B	3660	4660	4020	5020	1340

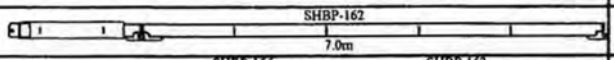
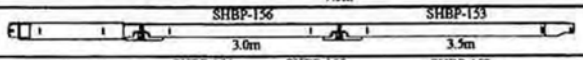
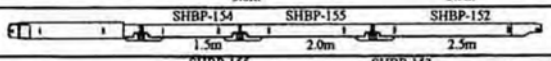
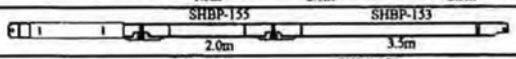
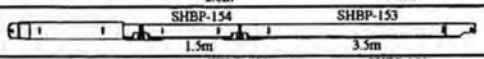
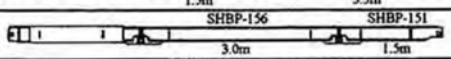
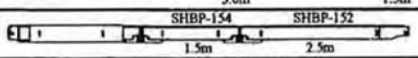
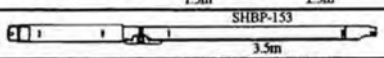
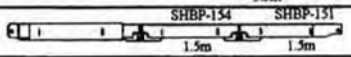
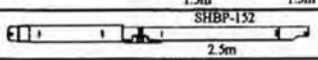
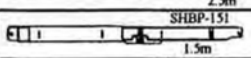
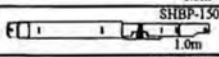
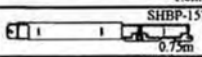
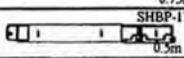
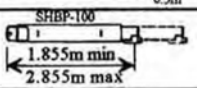
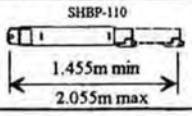
b) Shaftbrace

Typical Leg Arrangement





An intermediate extension can also be used in place of an end extension.

STANDARD SHAFTBRACE FRAME SIZES						
CLEAR INSIDE DIMENSION (mm)		WIDTH OF EXCAVATION	DIMENSION TO FACE OF SHEET (mm)		LEG CODE	LEG WEIGHT (Kg)
MIN.	MAX.		MIN.	MAX.		
8705	9705		9205	10205	SHBL-00	775
8105	9105		8605	9605	SHBL-01	792
7605	8605		8105	9105	SHBL-02	798
7105	8105		7605	8605	SHBL-03	737
6605	7605		7105	8105	SHBL-04	707
6105	7105		6605	7605	SHBL-05	683
5605	6605		6105	7105	SHBL-06	653
5105	6105		5605	6605	SHBL-07	592
4605	5605		5105	6105	SHBL-08	599
4105	5105		4605	5605	SHBL-09	538
3105	4105		3605	4605	SHBL-10	483
2605	3605		3105	4105	SHBL-11	455
2455	3455	 *	2955	3955	SHBL-11A	423
2205	3205	 *	2705	3705	SHBL-11B	411
1705	2705	 *	2205	3205	SHBL-12	355
1305	1905	 *	1805	2405	SHBL-13	270

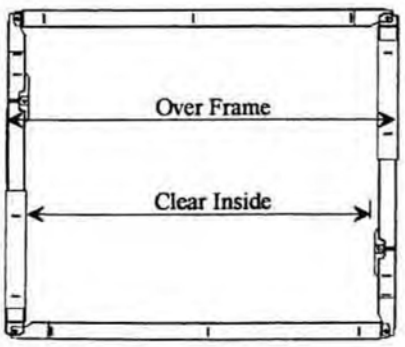
Note : If intermediate extensions are used in place of end extensions add:
100mm to clear inside dimension. 100mm to face of sheet dimension

* These legs only use intermediate extensions.
All legs use the SHBP-100 ram unit except SHBP-13
Leg lengths over 7.0m may require bracing struts.
Frame sizes for other combinations can be supplied by Mabey Hire Ltd on request.

c) Standard Frame Sizes of Fixed Length Rails

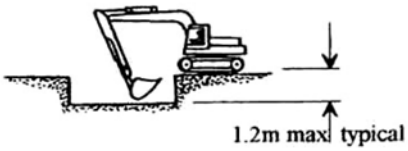
Fixed length rails are generally used in combination with Shaftbrace. Typical frame dimensions for Type A Tankbrace rails in combination with Shaftbrace legs with end extensions are given below:-

TANKBRACE - STANDARD FRAME SIZES			
Leg Code	TB-03	TB-02	TB-01
Clear Inside (mm)	6750	8750	10250
Over Frame (mm)	7250	9250	10750

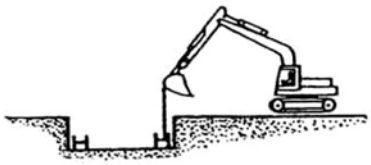


xii) Typical Sequence Of Sheet And Frame Installation And Removal

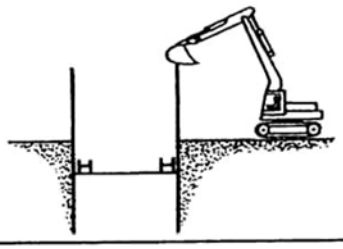
a) METHOD 1
Installation of 2 frames by excavator, without piling hammer, placing one leg at a time.



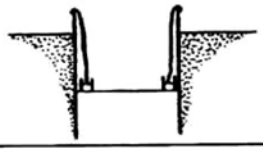
1. Fully excavate to first frame level.
NOTE : Excavation depth is subject to assessment in accordance with the 1996 Construction Regs.



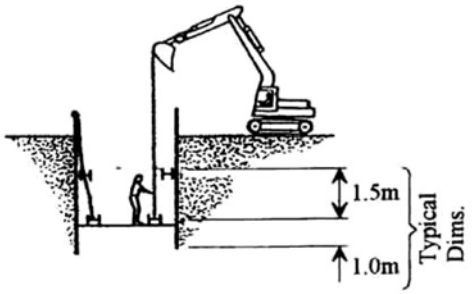
2. Place each leg in excavation and assemble the frame. Connect hydraulics and pump frame out to correct dimension. Remove hydraulics.



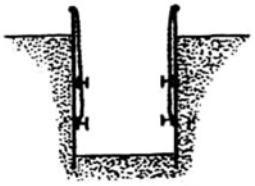
3. Using the frame and excavated face as a guide, place sheets and drive with excavator bucket as far as possible.



4. Connect restraint chains .
5. Connect hydraulics and individually pressurize all frame ram units to 2500 p.s.i., close lock-off valves and remove hydraulics.



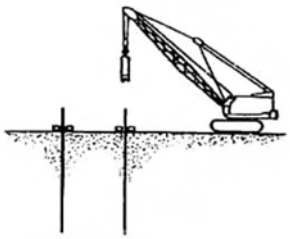
6. Dig through to next frame position and push sheets down.
7. Reposition restraint chains as necessary.
8. Place legs of second frame in excavation and assemble (safe working must be maintained).
9. Attach restraint chains between 1st and 2nd frames.
10. Connect hydraulics and individually pressurize all lower frame ram units to 2500 p.s.i., close lock-off valves and remove hydraulics.



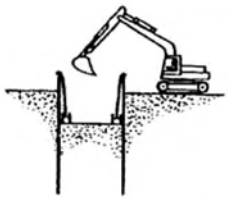
11. Push sheets down to give "toe-in" required and complete dig.

NOTE: This method requires operatives working in the excavation and the contractor must ensure safe working conditions at all times.

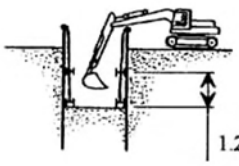
b) METHOD 2
Installation of 2 frames by fully driving sheets/piling with piling hammer.



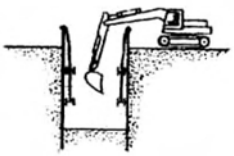
1. Fully drive sheets/piling using a piling guide.



2. Remove piling guide and excavate to first frame level.
3. Place each leg in excavation and assemble the frame.
4. Connect restraint chains.
5. Connect hydraulics and individually pressurize all ram units to 2500 p.s.i., close lock-off valves and remove hydraulics.



6. Dig through to next frame position.
7. Place legs of second frame in excavation and assemble (safe working must be maintained - refer to dimensions shown).
8. Attach restraint chains between first and second frames.
9. Connect hydraulics and individually pressurize all lower ram units to 2500 p.s.i., close lock-off valves and remove hydraulics.



10. Complete dig.

NOTE: This method requires operatives working in the excavation and the contractor must ensure safe working conditions at all times.

c) Removal of Frames

Backfill to the underside of the lowest frame and carry out any compaction required. Ensure frame is securely packed or supported from below. Connect hydraulics and individually open lock-off valves (max 2 turns) and fully retract all lower frame ram units. Remove restraint chains. Remove corner pins, attach lifting sling to lifting eyes and lift each leg one at a time from excavation. Follow the above procedure for the upper frame.

When the frames have been removed and the excavation backfilled, the sheets can be removed, one at a time using a trench sheet extractor.

xiii) Use of Restraint Chains

Restraint chains are provided as a back-up support arrangement in the unlikely event of hydraulic failure of one of the Powerbrace system hydraulic legs.
They are **not** intended as a means of suspension to be relied upon during installation/removal of frames. Always ensure all the restraint chains are fitted and that as much slack as possible is removed with the chain shorteners or 'D' shackles. Users must ensure that frames are securely supported by means other than the restraint chains prior to depressurizing the frames.

xiiii) Use of Pump and Hydraulic Fluid

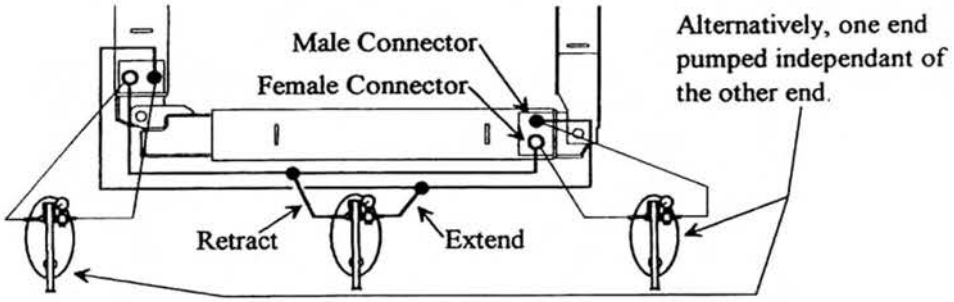
It is important to maintain an adequate level of fluid in the tank to avoid pumping air into the rams. The fluid level in the pump should be checked after each ram has been pressurized.

a) Mabey Hire Shoring Fluid

Only Mabey Hire Shoring Fluid should be used with Powerbrace.
The pump is normally supplied with a full tank of pre-mixed fluid.
If the fluid is separately supplied "neat" in 5 litre orange coloured containers, it should be poured into the pump and cold clean water added according to prevailing temperature conditions. Protective gloves should always be worn when handling shoring fluid.

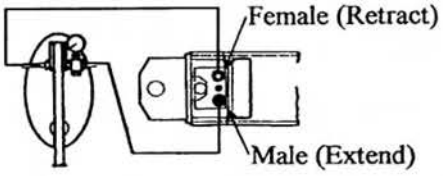
ie. Above 0° C	1 No. 5 litre fluid to 20 litres water
-6° C to 0° C	2 No. 5 litre fluid to 20 litres water
-10° C to -7° C	3 No. 5 litre fluid to 15 litres water
-10° C and below	Neat fluid only

b) Method of Pumping a Frame to Size or Pressurizing a Frame

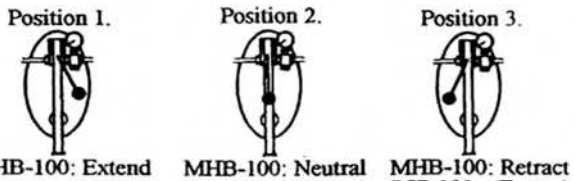


1. Connect both hoses as per the diagram.
2. Position the pump lever to the required position.
3. Ensure that safety lock-off valve on the ram is open by turning anti-clockwise no more than 2 turns.
4. Pump to required size. If the ram does not move, refer to fault finding overleaf. If necessary the frame can also be pressurized by continuing to pump. The pump will develop a pressure of 2500 p.s.i. before cutting out, corresponding to a load of about 6 tons.
5. Close lock-off valve with tool provided - hand pressure is sufficient.
6. Move extend/retract lever on pump from side to side a few times. This relieves pressure on the couplers and allows easy removal and replacement of the hoses.
7. Remove hoses.

c) Lever Positions on Pump for Extending and Retracting Rams



Both hoses MUST be connected.



Position 1.	Position 2.	Position 3.
MHB-100: Extend	MHB-100: Neutral	MHB-100: Retract
PSP-101 : Retract	PSP-101 : Neutral	PSP-101 : Extend

NOTE: Return lever to Neutral for short period before Retract

d) Fault Finding

In the event of the frames not extending or retracting when pumped, check the following points:

1. Pump is adequately filled with fluid.
2. Lever is in the correct position for required operation.
3. Both hoses are connected - double check connections to the couplers on the ram.
4. Safety lock-off valve is open (rotated anti-clockwise - max. 2 turns).
5. Frame is not heavily loaded.

If the ram still does not move, there may be air in the system which may be indicated by the ram springing back, and this must be purged as follows:

1) To purge pump:

Disconnect hoses from ram and connect hose ends together. Pump for several strokes until fluid can be heard returning to the tank. Repeat with lever in opposite position.

2) To purge ram:

Connect hoses, and pump ram to full extension. Reverse lever and pump until fully closed. Repeat until there is no sign of ram springing back.

If the ram still does not function properly refer to your nearest depot.

xv) DO'S & DON'TS

DO ..... ensure that all lock-off valves are open prior to pumping.

DO ..... ensure that pressure is being held in the rams before closing the lock-off valves.

DO ..... use restraint chains between each frame as well as to the top of the sheets.

DO ..... install frames as level as possible.

DO ..... release the pump pressure after closing the lock-off valves to ease removal of the hoses.

DO ..... keep the pump couplers dirt free by clipping male and female ends together after use.

DO NOT enter the excavation until pressure is held in the rams.

DO NOT lift a frame until pressure has been released.

DO NOT overpressurize the system as this can result in damage to the rails.

DO NOT attempt to disconnect a hose until the lock-off valve has been fully closed, and pressure has been released at the pump.

DO NOT pressurize a frame with a large gap between the rails at the ram position. A packer must be inserted to fill the gap first.

DO NOT release ram pressure by depressing or striking the coupler nipple.

DO NOT use the restraint chains as a means of suspension during installation or removal of the frames.

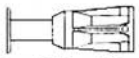
xvi) Use of Bracing Struts with Powerbrace

There are three types of bracing strut commonly used with Shaftbrace and Fixed Length Rails.

- JC40 struts from the JC40 Trenchbox system
- Mechanical Bracing Struts
- Hydraulic Bracing Struts

There are separate sets of user information available for the Mechanical Bracing Strut and the Hydraulic Bracing Struts. Information on the JC40 struts appears below.

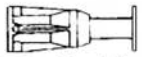
a) Identification of Components



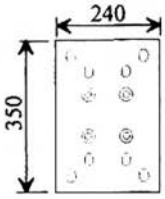
Left Hand Strut
JCBP-009
Weight 25Kg

800mm Extension
JCBP-007
Weight 40Kg

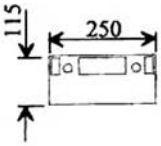
400mm Extension
JCBP-006
Weight 21Kg



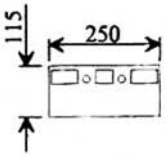
Right Hand Strut
JCBP-008
Weight 25Kg



Connector Plate
JCBP-035
Weight 13Kg



Clamp Plate
JCBP-044
(Use with Heavy Duty Intermediate Extensions).
Weight 5Kg



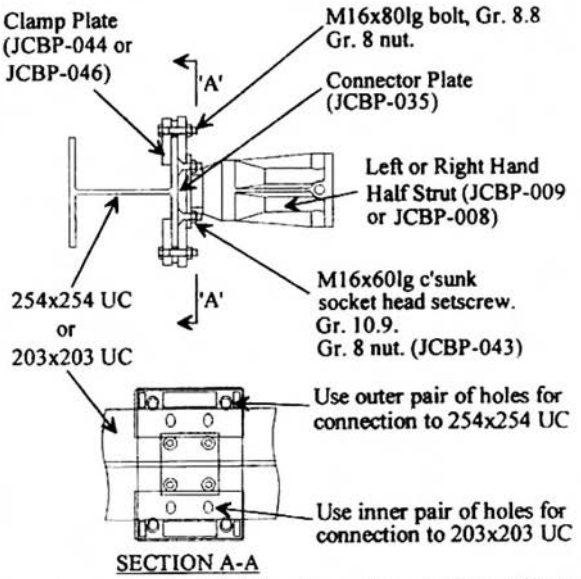
Clamp Plate
JCBP-046
(Use with Shaftbrace Extensions).
Weight 5Kg

b) Stacking and Handling

Suitable firm level dry areas should be made available on site for stacking and pre-assembly work.
Suitable lifting equipment of adequate capacity should be provided for off-loading, pre-assembly work, installation and dismantling.
Slinging should always be carried out by suitably experienced and competent personnel.
Weight of struts and components are given on this page.
Return pre-assembled struts as supplied from Mabey Hire's Depot. Ensure struts are fully retracted before stacking. Stack assembled struts side by side ONLY ONE layer high.
Strut components should be stacked in skips or bins.

c) Strut Sizes and Strut to Waler Connection Details

Code No. (Shaftbrace)	Code No. (Tankbrace)	Overall Strut Length		Weight (Kg)
		Min(mm)	Max(mm)	
SJC-00	MWS-00	490	710	73
SJC-01	MWS-01	710	1150	84
SJC-02	MWS-02	1110	1550	109
SJC-03	MWS-03	1510	1950	124
SJC-04	MWS-04	1910	2350	145
SJC-05	MWS-05	2310	2750	160
SJC-06	MWS-06	2710	3150	180
SJC-07	MWS-07	3110	3550	195
SJC-08	MWS-08	3510	3950	216


Clamp Plate (JCBP-044 or JCBP-046)
'A'
M16x80lg bolt, Gr. 8.8
Gr. 8 nut.
Connector Plate (JCBP-035)
Left or Right Hand Half Strut (JCBP-009 or JCBP-008)
M16x60lg c'sunk socket head setscrew. Gr. 10.9.
Gr. 8 nut. (JCBP-043)
254x254 UC
or
203x203 UC
Use outer pair of holes for connection to 254x254 UC
Use inner pair of holes for connection to 203x203 UC

SECTION A-A

General : Since our policy is one of continual improvement, components may vary in detail from those given in this publication.

mabey hire

all the support you need

User Information Appendix A : Provision of a Mabey Hire Site Demonstrator

Mabey Hire can, subject to availability, offer the services of a Site Demonstrator.
However, the Customer should note the following :-

A1. The Customers Responsibilities

A safe system of work remains the Customers responsibility at all times. It is his responsibility to prepare for, organise and direct the operation including :-

A1.1 Site induction for the demonstrator.

A1.2 Preparation of a method statement.

A1.3 A risk assessment.

A1.4 Selection of lifting equipment and any other equipemnt required to undertake the work.

A1.5 Positioning of the crane or lifting appliance.

A1.6 Banking the crane.

A1.7 Slinging the components.

A1.8 Assembling the components and installing them.

A2. Activities which the Mabey Hire Demonstrator is authorised to carry out

Mabey Hire Services Demonstrator is authorised to :-

A2.1 Assist in indentification of Mabey Hire components.

A2.2 Explain how they fasten together.

A2.3 Point out slinging points and special methods of lifting as noted in the user information.

A2.4 Demonstrate how to attach hoses and use pumps to extend/retract hydraulic braces.

A2.5 Draw attention to the content of the user information.

A2.6 Clarify queries with Mabey Hire scheme drawings.

The Demonstrator is NOT AUTHORISED to 'take over' or direct the installation.

To : Mabey Hire Limited
[Address]

Tel.No._____ Fax No._____

From _____

Site _____

Tel.No. _____ Fax No. _____

Provision of a Mabey Hire Demonstrator on site

We confirm receipt of your User Information Appendix A and that we would like to request the services of your Demonstrator on _____ date(s).

Signed _____ Name _____ Date _____